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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/750,664	01/02/2001	Hiroshi Fukumoto	201081US3	7591
22850	7590 11/26/2002			
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC			EXAMINER	
	SON DAVIS HIGHWAY	7	KIM, CHRISTOPHER S	
ARLINGTON, VA 22202			ART UNIT	PAPER NUMBER
			3752	
			DATE MAILED: 11/26/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	A ti 4' A)					
	Application No.	Applicant(s)				
Office Action Summary	09/750,664	FUKUMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of this communication and	Christopher S. Kim	3752				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period variety of the period for reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may y within the statutory minimum of the will expire SIX (6) Me cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. & 133)				
1) Responsive to communication(s) filed on 23.5	September 2002 .					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application	l .					
4a) Of the above claim(s) <u>4-20</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.4 	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Species A, figure 1 in Paper No. 6 is acknowledged. The traversal is on the ground(s) that no basis is given as required by MPEP 816 and an examination of all the species would not present a substantially greater burden. This is not found persuasive because the basis as required by MPEP 816 applies to restriction of inventions and not to election of species requirement for. Applicant's allegation of non-burdensome search is unsupported by facts.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 4-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 6.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.

Claim 1 recites "a field applier forming an equipotential surface" in line 4. The "field applier" appears to be in reference to the DC voltage source 5. If so, what is the "equipotential surface"? If the "equipotential surface" is in reference to the conductive nozzle plate 3, the "field applier forming an equipotential surface" appears to be a double inclusion of the "liquid holder" recited in line 2.

Claim 2 recites "a conductive nozzle plate" in line 2. It appears to be a double inclusion of the "liquid holder" recited in line 2.

Claim 3 recites "a concave portion" in line 2. It appears to be a double inclusion of the "equipotential surface convexed with respect to the liquid surface" recited in claim 1, lines 4-5.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Hochberg, deceased et al. (4,046,074).

Hochberg et al. discloses a liquid sprayer comprising: a liquid holder 30; a field applier 40, 42; a conductive nozzle plate 30; a first opening 44; a second opening (concave portion of 30); an object 12.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (703) 308-8336. The examiner can normally be reached on Monday - Thursday, 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Y. Mar can be reached on (703) 308-2087. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7766 for regular communications and (703) 308-7766 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

Christopher S. Kim

Examiner Art Unit 3752

CK

November 24, 2002